

CLAIMS

1. Nozzle (1) with a rotating jet of the type constituted by a stationary body (2A) delimiting an open
5 cavity (2B) receiving an injector (2C) whose one end is driven with circular motion about a pivot (2D) of the body (2A) under the effect of water pressure with tangential flow acting on said injector (2C) whilst the other end of this injector (2C), provided with a spray nozzle (2E), is
10 disposed in the opening of the cavity (2B) in the form of a concave seat (2F) permitting the precessional movements of the injector, characterized in that the internal diameter (d1) of the spray nozzle (2E) is comprised within the range of 2.8 to 6 mm, whilst the smallest diameter (d2) of the
15 seat (2F) is comprised in the range of 4 to 11.5 mm, the smallest diameter (d2) of the seat (2F) being 1.7 times greater, $\pm 10\%$, than the internal diameter (d1) of the spray nozzle (2E) so as to permit medium pressure supply of said nozzle.

20

2. Nozzle (1) with a rotating jet according to claim 1,

characterized in that the spray nozzle (2E) and the seat (2F) are made of a material, such as carbide, of
25 hardness greater than that of the materials constituting the body (2A) and the injector (2C) of the nozzle, so as to reduce wear of the assembly.

3. Nozzle (1) with a rotating jet according to one of
30 claims 1 and 2,

characterized in that the seat (2F) has the shape of a semispherical cup open at its base to delimit a passage for

the outlet of the fluid flow, the diameter of this outlet passage for the fluid flow of the seat corresponding to the smallest internal diameter (d2) comprised within the range of 4 to 11.5 mm.

5

4. Nozzle (1) with rotating jet according to one of claims 1 to 3,

characterized in that the seat (2F) is provided by means of a piece connected in the opening of the cavity (2B), this opening of the cavity (2B) constituting the outlet opening of the medium pressure jet of the nozzle.